G501975JM36311

PCI-E Serial ATAII

Host Controller Card

USER MANUAL

MM-JM363-2IR

WARNING

Before installing and activating RAID function, please make sure you have a complete backup of your existing data from hard drives. Manufacturer is not responsible for data loss due to abuse, misuse, or neglect. Should you have and installation problem, please contact us for assistance.

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1. Overview

MM-363-2IR is a single chip, one-lane PCI Express to two-port Serial ATA II and one-port PATA Host Controller. The MM-J363-2IR is designed to provide two-port SATA II and one-port PATA connectivity. The MM-J363-2IR supports both AHCI and Legacy IDE controller to increase system feasibility, including Native Command Queuing (NCQ), Hot Plugging, ATAPI Device Supporting, Port Multiplier with Command-based Switching Supporting, Programmable Output Swing Control to fit SATA II Gen2i and Gen2m (External SATA Connection, eSATA). It features PCI Express bus and Serial ATA II interface to express high performance storage devices.

2. Features

Compliance

> Compliant with ***Serial ATA AHCI (Advanced Host Controller Interface) Spec. Reversion 1.0***

>Compliant with ***Bus Master Programming interface for IDE ATA Controllers Revision 1.0***

. Compliant with ***PCI Express Base Spec. Revision 1.0a***

.Compliant with ***Serial ATA High Speed Serialized AT Attachment Spec. Revision 1.0a***

. Compliant with ***Serial ATA II: Extensions to Serial ATA 1.0a Revision 1.1***

.Compliant with Gen2i and Gen2m ***Serial ATA II: Electrical Spec. Revision 1.0***

. Integrated 1-Lane PCI Express PHY and 2-port SATA II PHY

. Integrated two PLL for both PCI Express bus and SATA II interface

. Output swing control and Automatic impedance calibration for both PCI Express and SATA II PHY

. Supports up to 64K Byte external Flash for BIOS expansion

. Supports a slave SMBus interface (follow ***System Management Bus Specification Revision 1.1***)

.Supports 1-Lane 2.5Gbps PCI Express bus

.Internal native interface multiplexed to 2-port SATA II and 1-port PATA

. All registers accessible in unified memory space

SATA II/PATA Functions

. Supports 2-port 3.0Gbps SATA II interface

. Supports two independent SATA II channels (separate logic and FIFO)

. Supports Native Command Queue (NCQ) on SATA II port

. Supports Hot Plugging like USB on SATA II port

. Supports SATA II Gen2i and Gen2m (External SATA Connection, eSATA)

. Supports Port Multiplier with Command-based Switching on SATA II port

. Supports up to UDMA6 transfer mode of PATA

. Supports up to 4 storage device connection

. Supports up to RAID0, RAID1, JBOD RAID function

3 Jumper settings

JP1 For Test

4 Installing the Ultra SATA II IDE Host controller card into your computer

1. Turn off your computer and all external devices connect to it.
2. Disconnect your computer from the power sources.
3. Open the computer case. Refer to your computer user manual for more

details.

4. Find an available PCI-E slot and remove the slot bracket. Save the bracket screw for later use.

5. Align the SATAII host controller card horizontally with respect to the PCI slot and insert it into the slot firmly and evenly. Take care not to the slot, fasten it to the computer case with the bracket screw you have saved.

6. Connect SATA II device to the connector of controller card with IDE/SATA Cable.

7. Close the computer case. Make sure to reconnect all the external devices to your computer.

5 Driver Installation

Driver Locations

The drivers can be located in the directories of the Driver CD.

:\JMicron\JMB363\Driver

Windows 98/98SE or Windows ME

Step 1: Start Windows **98/98SE or Windows ME** .

Step 2: The "Update Device Wizard" will appear, informing you that it has found a "PCI RAID controller", Chick "**Next**" button.

Step 3: (a) Windows 98/98SE user – Select "**Specify a location**".

(b) Windows ME user – Select "***Specify the location of the driver (Advanced)***" and then select "**Specify a location**".

Step 4: Insert the Device CD in the CDROM driver and click on the ***"Browse***" button.

Step 5: At the "Browse" option.

(1) Select CDROM drive.

(2) Select folder "JMB36x".

Step6: The "Update Device Wizard " will appear, informing you that it has found, Click the "**Next**" button.

Step7: Follow the instructions to finish up the driver installation.

Windows NT/2000/XP/2003

If you are performing a new windows NT 4.0,2000 ,XP or 2003 installation to a SATA hard drive attached to the Serial ATAII controller card.

Step1: Please copy all the directories and files in the "floppy" folder to the root directory of a floppy disk to create a pre-install disk for Win2K/WinXP/Win2003/WinXP 64bits/Win2003 64bits.

For example,

A:\amd64

\x32

txtsetup.oem

If your windows NT 4.0,2000 ,XP or 2003 installation CD is bootable, simply put the CD into the CDROM drive and startup your system to begin installation. If your windows NT 4.0,2000 ,XP or 2003 Installation CD is not bootable, you must use the windows NT 4.0,2000 ,XP or 2003 installation diskette to boot up first before commencing installation.

Step2: Press "**F6**" for third party SCSI or driver installation at the beginning of the text mode installation. Insert the 1.44MB floppy diskette into the floppy drive. Press **"S"** when setup asks if you want to specify an additional device

Step3: Press "Enter" to continue on with text mode setup.

Step4: Follow the setup instructions to complete installing windows NT 4.0, 2000, XP or 2003

If you are already using a SATA hard drive is still connected to the default SATA controller. Make sure the Serial ATAII host controller card as the default bootable drive, you must follow these procedures.

Step1: Make sure the SATA hard drive is still connected to the default SATA controller. Make sure the Serial ATAII host controller card is properly installed into your system and there is no SATA device connected to the card.

Step2: Start the Windows system.

Step3: Windows System will inform you that it has found a "PCI-X RAID controller". Click the **"next"** button to continue.

Step4: Select :"**search for a suitable driver for your device (Recommended)**" and click on the **"next"** button.

Step5: Insert Driver CD into the CDROM drive. Select "***Specify a location"*** and click the "**Next"** button to continue.

Select: **:\JMicron\JMB363\Driver\x32** folder.

Setp6: The "update Device Driver Wizard" will appear, informing you that it has found driver. Click "**ok"** button and then the **"Next"** button.

Step7: Follow the setup instructions to complete installation.

6 Accessories

.One User Manual

.One ATA/133(80-wires/40pin) IDE cable, One serial ATA cable

.One PCI-E SATA II HOST controller card

.One Driver CD